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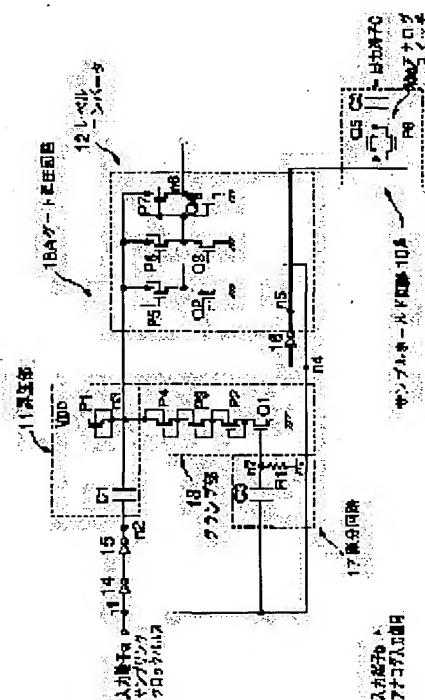
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(54) SEMICONDUCTOR DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a semiconductor device having an A/D converter capable of operating with a lower power consumption.

SOLUTION: This semiconductor device has an A/D converter including a sample-and-hold circuit 10A and a gate boosting circuit 18A which boosts the gate voltage of an analog switch 10a included in the sample holding circuit 10A. The gate boosting circuit 18A has a boosting part 11 which boosts a sampling clock pulse controlling the analog switch 10a, a clamp circuit 13 which supplies a current to the ground to prevent the sampling clock pulse from being boosted above a specific value, and a differentiating circuit 17 which operates the clamp part 13 only the moment the sampling clock pulse goes up to a high level.



LEGAL STATUS

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